

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International publication date

11 November 2004 (11.11.2004)

PCT

(10) International publication number

WO 2004/096173 A3

(51) International patent classification⁷:

9/107, C08F 287/00

A61K 9/50,

(81) Designated states (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International application number:

PCT/FR2004/000994

(22) International filing date:

23 April 2004 (23.04.2004)

(25) Language of filing:

French

(26) Language of publication:

French

(30) Data relating to the priority:

03/05,108

25 April 2003 (25.04.2003)

FR

(84) Designated states (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): ETHYPHARM [FR/FR]; 21, rue Saint-Mathieu, F-78550 Houdan (FR). CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS) [FR/FR]; 3, rue Michel-Ange, F-75016 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants (US only): RICHARD, Joël [FR/FR]; 30, rue du Ruau, F-49400 Varrains (FR). DESCHAMPS, Frantz [FR/FR]; 13, rue Auguste Michel, F-49100 Angers (FR). LACROIX-DESMAZES, Patrick [FR/FR]; 8, rue Comte Bernard, F-34090 Montpellier (FR). BOUTEVIN, Bernard [FR/FR]; 1, rue Anselme Mathieu, F-34090 Montpellier (FR).

(74) Representatives: MARTIN, Jean-Jacques, etc.; Cabinet Regimbeau, 20, rue de Chazelles, F-75847 Paris Cedex 17 (FR).

Published:

- With the International Search Report.
- Before expiry of the period provided for amending the claims, will be republished if such amendments are received.

(88) Date of publication of the International Search Report:

28 July 2005

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

As printed

WO 2004/096173 A3

(54) Title: METHOD FOR THE DISPERSION OF WATER-SOLUBLE OR HYDROPHILIC SUBSTANCES IN A SUPERCRITICALLY PRESSURIZED FLUID

(54) Titre : PROCÉDÉ DE DISPERSION DE SUBSTANCES HYDROSOLUBLES OU HYDROPHILES DANS UN FLUIDE A PRESSION SUPERCRITIQUE

(57) Abstract: A method for the dispersion of water-soluble or hydrophilic substances in a supercritically pressurized fluid by adding a surfactant, said surfactant being a block copolymer comprising at least one CO₂-philic block and at least one non ionic hydrophilic block.

(57) Abrégé : Procédé de dispersion de substances hydrosolubles ou hydrophiles dans un fluide à pression supercritique par addition d'un surfactant, ledit surfactant étant un copolymère à blocs comprenant au moins un bloc CO₂-phile et au moins un bloc hydrophile non ionique.